

ABSTRACT

The object of the present invention is to provide a nucleoside or nucleotide having an unnatural base. The nucleoside or nucleotide of the present invention has a 5-substituted-2-oxo(1H)-pyridin-3-yl group as a base. Preferably, the 5-position of the above base is substituted with a substituent selected from the group consisting of the following:

- 10 1) a photoreactive group selected from iodine and bromine;
- 2) an alkenyl group, an alkynyl group or an amino group, or a derivative thereof;
- 3) biotin or a derivative thereof; and
- 15 4) a fluorescent molecule selected from fluorescein, 6-carboxyfluorescein, tetramethyl-6-carboxyrhodamine, and derivatives thereof.